- n mktnghfkdfawkkcllgasvgallvgcsphiietnevalklnyh**pasekvqaldekil**l
- 61 Irpafqysdniakeyenkfknqtvlkveqilqnqgykvinvdssdkddfsfaqkkegyla
- 121 vamnge ivlrpdpkrtiqkksep gllfst gldkme gvlipagfvkvtilep msgesld sf
- 181 tm**dlseldiqekflk**tthsshsgglvstmv**kgtdnsndaik**salnkifgsi**mqeidkklt**
- 241 **qknlesyqkdakelkgkrn**r

Fig. 1

Streptococcus pneumoniae pspA homologous sequence ->	offreptococcus pneumoniae pspA homologous sequence -> x x x I D K x X T Q K x L E x x x x g D A x E L x x x x x
H. pylori flagellar sheath adhesion protein sequence ->	protein sequence -> MQEIDKKLTQKNLESYQKDAKELKGKRN

 $\times \times \text{E I} \times \text{K K L} \times \times \times \times \times \text{E S} \times \times \text{K D A K E L} \times \text{G} \times \text{R N}$

Mycoplasma hominis Lp1 homologous sequence ->

Fig 2a

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MQE I D K K L T Q K N L E S Y Q K D A K E L K G K R N	× × E I × K K L × × × × × × E S × × K D A K E L × G × R N
Streptococcus pneumoniae pspA homologous sequence ->	H. pylori flagellar sheath adhesion protein sequence ->	Mycoplasma hominis Lp1 homologous sequence ->

Figure 4 Plot

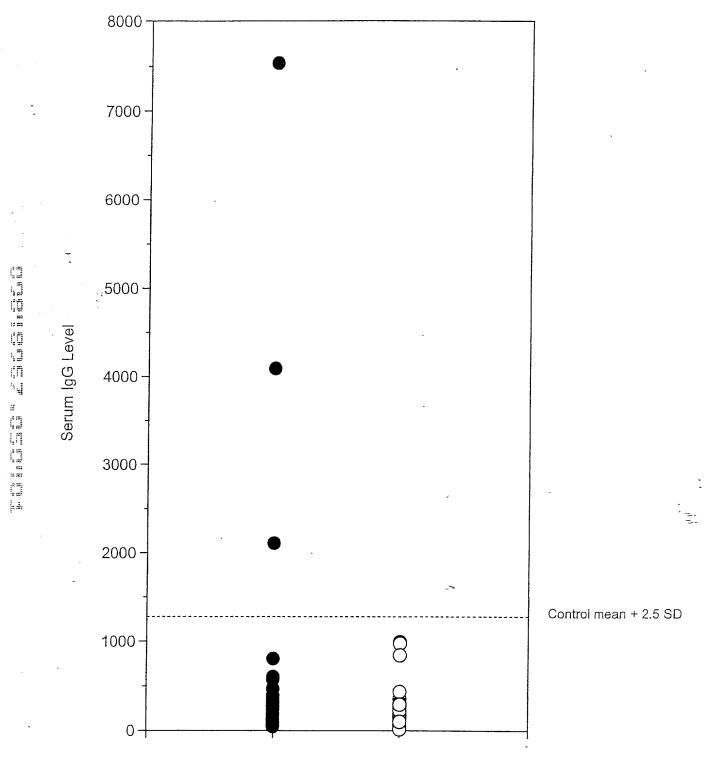
Figure 5 Plot

Figure 3 Plot

FIG 26

Fig. 3

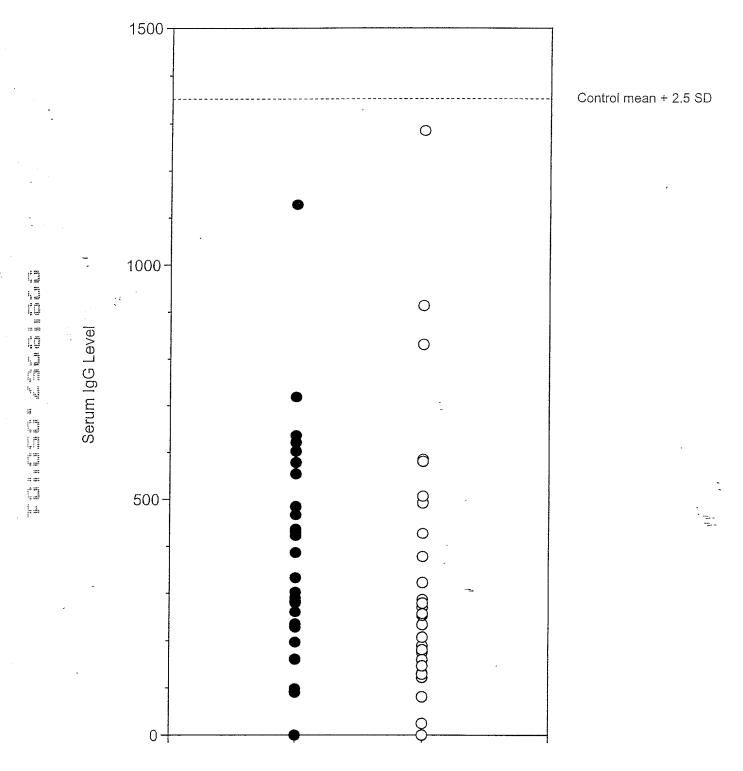




- H. pylori-Positive Patient Sera
- O Control Subject Sera

Fig 4

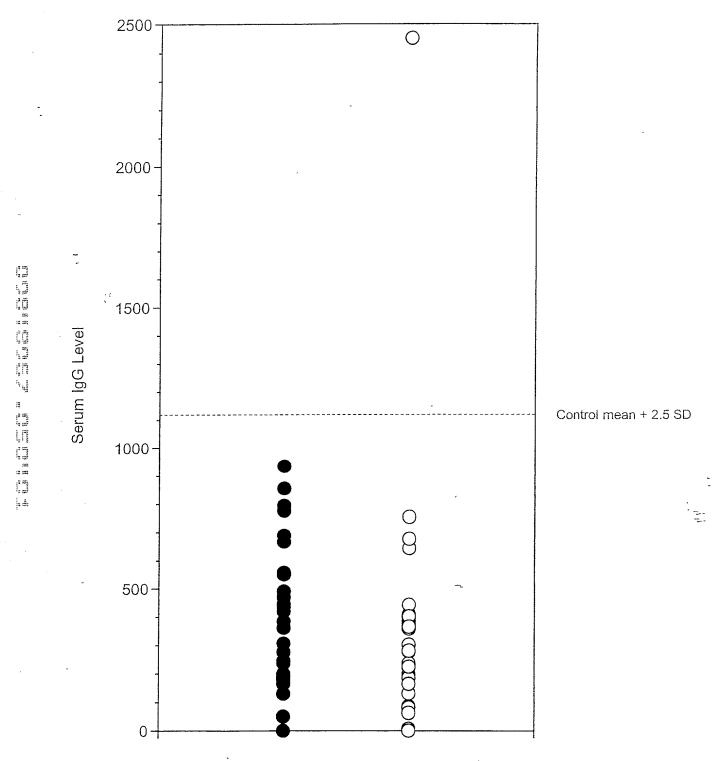
H. pylori Peptide KNLESYQKDA Data



- H. pylori-Positive Patient Sera
- O Control Subject Sera

Fig 5

H. pylori Peptide QKDAKELKGKRN Data



- H. pylori-Positive Patient Sera
- O Control Subject Sera

Fig. 6

Parent H. pylori Protein

Functionally Specific Peptide Antigens

Adhesin 2

LPALKENNGKV

Iron-Regulated Outer
Membrane Protein

VTTKGERTFEYNN

Lipid A Disaccharide Synthase

LEQNEGFKRRV

LPP20 Lipoprotein

TVDASGKRSISG

Flagellar Sheath Adhesin

MQEIDKKLTQKN

Outer Membrane Protein 1

NTRYDRWAKD

Outer Membrane Protein 19

INGDKRTGGKPNTPE

Outer Membrane Porin 1

SSSEYEKLKA

Outer Membrane Porin 2

KEQIIEAKGPDV

Vacuolating Cytotoxin

QQTHRKINRP

KQAEEANKTP

KTPDKPDKVW

FIG. 7a SCANNED,#22

Number of Igg-Positive Results On Individual Peptide Assays

Total	-	-		+	1	+	+	+	,	t	1	+	- 4		+ -	+	+	1	1	+	+	+	ı	+	1	ı	,	+	+		7 1
Pep 23	,	. ,	1		ı	,	1	ı	ı	ı	•	1	,		•	ı		•	ı	2	ı	+	ī	ı		1		ī	ı	1) I
Pep 22		•		1 .	+	7	+		•		1		,	1		ı	1	t	t	:	ı	3		ı	1	1	'	,	1		1 1
Pep 21	,		,	1	ı	,	,		1		ı		,	,			•	,	ŧ	ŧ	ţ	•	ļ			+	-	l-	1	T	
Pep 20	1	,	,		·			+		•	ı	+	+	- 4	- 1		-	•	r .	+	1		1			+ '		1 1	ı i		· 1
Pep 18	t		,	•				•	ı		,	1			+	- 1				ı				- -				•	,		• •
Pep 17		,	,	,	4	+	•		•	ı	1	1		•	,	,				+ -	+ :	•							,		·
Pep 16	1		•		,				·		ı	+	+	•	1	,					, ,			,	,	,		,	•	,	-
Pep 13	,	,	•	,			, ,	r			1	•	+	•	ŧ	ı			-	 -			: 1		,	,	,	+	. 1		•
Pep 12		•	,	•	•		1	F	ı	1	ı	1		,		á	1	,					+	- 1	+	+		,	,	,	,
Pep 10	1	•	+								1	r	1			,	ı	1	-1	- 1	,		1	•		1		,	•		,
Pep 9			,	ţ			,		ı		-	•	ı			+			,	ı	t		ı	•	,	•	•	,	•		
Pep 6	+	I	1	ı	ı	1	+	- 1	1		•			1				τ		,	1	1	1			ı		,	ı		1
Pep 2	1	1	ı	ı		-	ı	•	•	1	•	+	ı	ı		•	ı	•	,		,			,		,	ı	,	r	1	t
H. pylori Patient	_	2	က	4	J.	9	7	œ	o	ה ה		-	12	13	4	15	16	17	18	19	2.0	21	22	23	24	2.5	26	27	28	29	3.0

Number of IgG-Positive Results On Individual Peptide Assays

Control Subjects	Pep 2	Pep 6	Pep 9	Pep 10	Pep 12	Pep 13	Pep 16	Pep 17	Pep 18	Pep 20	Pep 21	Pep 22	Pep 23	<u>Total</u> Array
-		ı	ı		1	,	-	1	E	t		1	ì	,
8	,	ı	1		1	,	,	1	•	ı	,	1	t	ı
ო	ı	ı	•	ı	•		1	τ		•	,	ı	ī	1
4	1	,	,	,	*	•	ı	ı	,	,	,	,	ı	
જ	•	ı	ı	1	1	ı	1	•	,	1	1	,	1	•
9	t	1	1		1		,		1	ı	1	1	1	,
7	r	1	,	F	•	,		1	,	,	,	,	1	1
8		1	1	1	r		,	ı	1	-,		,	t	ı
6	ı	1	ı	,	1	1		,	ı	ı		,	ı	1
10	t	ı	ı	τ		ı	ı	ı	,		ı	t	,	
11	***************************************	1		T.	,				1	ı	,	ı	1	-
12		1	•	,	r		1		•	ı	r	ı	1	1
13	1	,	•	,	ı	,		1	t				1	,
14	ı	1	ı	ı	ŧ	1	,	,	ı	1	'n		,	1
15	1	ı	1			•		ı			,	ı	ı	1
16		1		3	·		t	1		,	1	1		-
17	ı	•	1	ı	ı			,		,	,	1	t	t
18	,	ī	ı	,	,	t	ı		1	ı	ı	ı	,	1
1 9	1		ſ	•	t	1	1	1	1	t	·	ı		ì
2.0	•	i	ı	,		ı	,			t	t		ı	,
21	1		t	1					,		•			,
22	i		1			1		1	,	ı	1	,	,	
23	r	t	ŧ	,	,	ī	t	,			1	,	1	1
24	i	,	ī			1	,	,	1	•	,		ı	1
2.5	ı	1	,		ı	1	,	,	•	- 1	1	ī	,	
26	ī	I	1	1		1	ī	t	,	1		1	1	
2.7	ı	ı	1	ŧ	ı			ı	ı	,	,	,	1	1
28	,	1	ī		; r'	ı		1	,	,		1	1	1
29	ı	t	1		1	,	•	1	,	,	t	1	ì	1
3.0	ı	1	1	,		1	•	,		,	ı	ı	1	ı

Human Type II CollagenFunctionally Specific Peptide Antigens

QGQDVRQPG

GRDGE

GGFDEKAGGA

WPGLPGA

GLPGTPGTDGPKGASGPAGPPGAQGPPG

GPEGAPGKDGGRGLT

GÉVGPPGPAGSAGARGAP

TGPKGARGAQGPPGATGFPGAA

NGNPGPPGPPGPS

LQGPAGPP

AVGAPGAPGPPGSPGPAGPTGKQGD

KGHRGFTGLQ

IGPPGPRGRSGETGPAGPPGN

FIG 8